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JUL 08 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICEIn re the Application of: **Dabak et al.**Docket Number: **TI-31293**Serial No.: **09/885,878**Art Unit: **2637**Filed: **06/20/2001**Examiner: **J.M. Meek**

For: **CODE DIVISION MULTIPLE ACCESS WIRELESS SYSTEM WITH TIME REVERSED
SPACED TIME BLOCK TRANSMITTER DIVERSITY ENCODING**

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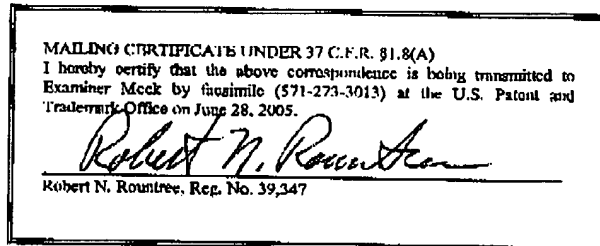
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<input type="checkbox"/> CONTINUATION APP'N (# Pages)	<input checked="" type="checkbox"/> INTERVIEW ISSUES (3 Pages)
<input type="checkbox"/> DIVISIONAL APP'N	<input checked="" type="checkbox"/> INTERVIEW SUMMARY (2 Pages)
NAME OF INVENTOR(S): Dabak et al.	
RECEIPT DATE & SERIAL NO.: 09/885,878	
TITLE OF INVENTION: CODE DIVISION MULTIPLE ACCESS WIRELESS SYSTEM WITH TIME REVERSED SPACED TIME BLOCK TRANSMITTER DIVERSITY ENCODING	
FILING DATE: June 20, 2001	
TI FILE NO.: TI-31293 DEPOSIT ACCT. NO.: 20-0668	
DATE FAXED: July 8, 2005	
DUE: August 5, 2005	
ATTY/SECY: Robert N. Rountree	

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CENTRAL FAX CENTER**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE****JUL 08 2005**In re the Application of: **Dabak et al.**Attorney Docket No.: **TI-31293**Serial No.: **09/885,878**Examiner: **Meek, Jacob M.**Filed: **June 20, 2001**Art Unit: **2637**For: **CODE DIVISION MULTIPLE ACCESS WIRELESS SYSTEM WITH TIME
REVERSED SPACED TIME BLOCK TRANSMITTER DIVERSITY ENCODING****INTERVIEW ISSUES**

June 28, 2005

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Thank you for agreeing to an Examiner Interview on June 30, 2005, at 9:00 AM ET. I am requesting the Interview to clarify issues in the Office Action dated 5/5/05. Claims 1-88 are pending. Claims 1-14 are allowed. Claims 71-74 are objected to. Claims 60 and 78 are the only other independent claims. Support for both claims is shown at Figures 3 and 4 of the instant application. They are both subject to a new and final rejection as being anticipated by Whinnett et al. (U.S. Pat. No. 6,317,411). In particular, Examiner indicates Figure 3 and column 2, line 61 through column 3, line 10 of Whinnett et al. as the anticipatory disclosure. For your convenience, claims 60 and 78 are repeated below.

TI-31293, Page 1

Issues

1. Referring to Figure 3 of Whinnett et al., what are the first and second groups of signals recited in claim 60?
2. What is the sequence of the first group and the sequence of the second group of claim 60?
3. Examiner has indicated S_1S_2 is the first group of signals at the first output terminal of claim 60. This again raises the question -- What was the second group of signals at the input terminal?
4. Claim 60 further recites a third group of signals comprising a transform of the second group of signals. Examiner has indicated $-S_2^*S_1^*$ as a third group of signals. The group $-S_2^*S_1^*$ might be a transform of the first group, but claim 60 requires a transform of the second group. Where are the second and third groups of signals?
5. Claim 60 recites "the third group of signals is different from the second group of signals." This is shown at Figure 4 of the application. Note the time reversal of signals. Where is a third group of signals that is different from a second group in Whinnett et al.?
6. Time reversal is specifically claimed in depending claims 63-64 and 66-67 (from 60) and 81-82, 84, and 87 (from 78). Where is time reversal of the second and third groups disclosed by Whinnett et al.?
7. Claim 78 requires "applying a respective plurality of signals to each of a plurality of encoder circuits." (See $22^1 \dots 22^L$ and $D^1 \dots D^L$ of Fig. 3 of the application). Where are the encoders and the respective signals in Whinnett et al.?
8. Claim 78 requires "modulating the first group and the transformed second group each of the respective plurality of signals by a respective code corresponding to said each of a plurality of encoder circuits." Where is this disclosed by Whinnett et al.?

Claims

60. A circuit, comprising:

an input terminal coupled to receive a first and a second group of signals, each group having a respective sequence;

a first output terminal coupled to receive the first group of signals during a first time; and

a second output terminal coupled to receive a third group of signals having a sequence during the first time, the third group of signals comprising a transform of the second group of signals, wherein the third group of signals is different from the second group of signals.

78. A method of processing signals, comprising the steps of:

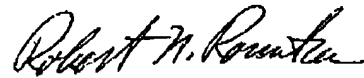
applying a respective plurality of signals to each of a plurality of encoder circuits;

producing a first group of the respective plurality of signals at a first output terminal of said each of a plurality of encoder circuits;

producing a transformed second group of the respective plurality of signals at a second output terminal of said each of a plurality of encoder circuits; and

modulating the first group and the transformed second group each of the respective plurality of signals by a respective code corresponding to said each of a plurality of encoder circuits.

Respectfully submitted,




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CENTRAL FAX CENTER****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE****JUL 08 2005**In re the Application of: **Dabak et al.**Attorney Docket No.: **T1-31293**Serial No.: **09/885,878**Examiner: **Meek, Jacob M.**Filed: **June 20, 2001**Art Unit: **2637**For: **CODE DIVISION MULTIPLE ACCESS WIRELESS SYSTEM WITH TIME
REVERSED SPACED TIME BLOCK TRANSMITTER DIVERSITY ENCODING****INTERVIEW SUMMARY UNDER 37 CFR 1.133(b)**

July 8, 2005

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450I hereby certify that the above correspondence is being facsimile
transmitted to the Patent and Trademark Office on July 8, 2005.
Robert N. Rountree, Reg. No. 39,347

A telephonic interview was conducted between Examiner Jacob M. Meek, Supervisory Patent Examiner Jay K. Patel, and Robert N. Rountree, Attorney for Applicants, on June 30, 2005. A summary of that interview in the format of form PTOI-413 is given below.

- (A) Application No.: 09/885,878
- (B) Applicant: Dabak et al.
- (C) Examiner: Jacob M. Meek
- (D) Date: June 30, 2005
- (E) Type: Telephonic
- (F) Attorney for Applicant: Robert N. Rountree, Reg. No. 39,347
- (G) No exhibit or demonstration was conducted.
- (H) Claims 60, 63-64, 66-67, 78, 81-82, 84, and 87 were discussed.
- (I) Prior Art: Whinnett et al., U.S. Pat. No. 6,317,411 was discussed.

TI-29425, Page 1

(J) The attached Interview Issues, faxed to Examiner Meek on June 28, 2005 were discussed. Applicants understand from their discussion that Examiner Meek's interpretation of Whinnett et al. would not support a rejection under 35 U.S.C. 102(b). Applicants further believe that Examiner Meek and Supervisory Patent Examiner Patel agree. Both Examiner Meek and Supervisory Patent Examiner Patel stated that the Office Action dated May 5, 2005 was not a final rejection.

(K) Supervisory Patent Examiner Patel was present.

Respectfully submitted,



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